# COMPLIANCE COMPONENT TEMPLATE

## DEFINITION

| | |
|---|---|
| *Name* | OSI Layer 1 - Physical Layer |
| *Description* | The physical layer defines the electrical, mechanical, procedural, and functional specifications for activating, maintaining, and deactivating the physical link between communicating network systems. Physical layer specifications define characteristics such as voltage levels, timing of voltage changes, physical data rates, maximum transmission distances, and physical connectors. Physical layer implementations can be categorized as either LAN or WAN specifications. |
| *Rationale* | The Open System Interconnection (OSI) reference model describes how information from a software application in one computer moves through a network medium to a software application in another computer. The OSI reference model is a conceptual model composed of seven layers, each specifying particular network functions. The model was developed by the International Organization for Standardization (ISO) in 1984, and it is now considered the primary architectural model for intercomputer communications. |
| *Benefits* | The OSI model divides the tasks involved with moving information between networked computers into seven smaller, more manageable task groups. A task or group of tasks is then assigned to each of the seven OSI layers. Each layer is reasonably self-contained so that the tasks assigned to each layer can be implemented independently. This enables the solutions offered by one layer to be updated without adversely affecting the other layers. |

## ASSOCIATED ARCHITECTURE LEVELS

| | |
|---|---|
| *Specify the Domain Name* | Infrastructure |
| *Specify the Discipline Name* | Network |
| *Specify the Technology Area Name* | Protocols |
| *Specify the Product Component Name* | |

## COMPLIANCE COMPONENT TYPE

| | |
|---|---|
| *Document the Compliance Component Type* | Guideline |
| *Component Sub-type* | |

## COMPLIANCE DETAIL

| | |
|---|---|
| *State the Guideline, Standard or Legislation* | ANSI/ISO FDDI<br>CCITT/ITU G.703<br>CCITT/ITU V.24<br>CCITT/ITU V.35<br>EIA/TIA-232<br>EIA/TIA-449<br>EIA-530<br>HSSI<br>ISDN<br>SONET<br><br>IEEE 802.3 Ethernet (CSMA/CD)<br>IEEE 802.3u Fast Ethernet<br>IEEE 802.3z Gigabit Ethernet<br>IEEE 802.3ae 10 Gigabit Ethernet<br>IEEE 802.4 Token Bus<br>IEEE 802.5 Token Ring<br>IEEE 802.6 Distrubuted Queue Dual Bus (MAN)<br>IEEE 802.9 Voice/Data Integration (IsoEnet)<br>IEEE 802.10 LAN Security<br>IEEE 802.11b 11 Meg wireless Network<br>IEEE 802.12 Demand Priority Access Lan (100BaseVG-AnyLan)<br>IEEE 802.15 Wireless Personal Area Network<br>IEEE 802.16 Wireless Metropolitan Area Networks<br>IEEE 802.17 Resilient Packet Ring |
| *Document Source Reference #* | |

### Compliance Sources

| | | | |
|---|---|---|---|
| *Name* | Cisco | *Website* | [http://www.cisco.com/univercd/cc/td/doc/cisintwk/ito_doc/introint.htm] |
| *Contact Information* | | | |
| *Name* | | *Website* | |
| *Contact Information* | | | |

## KEYWORDS

| | |
|---|---|
| *List Keywords* | |

## COMPONENT CLASSIFICATION

| | |
|---|---|
| *Provide the Classification* | ☐ *Emerging* ☒ *Current* ☐ *Twilight* ☐ *Sunset* |
| *Sunset Date* | |

## COMPONENT SUB-CLASSIFICATION

| Sub-Classification | Date | Additional Sub-Classification Information |
|---|---|---|
| ☐ *Technology Watch* | | |
| ☐ *Variance* | | |
| ☐ *Conditional Use* | | |

### Rationale for Component Classification

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|---|---|
| *Document the Rationale for Component Classification* | |

## Migration Strategy

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|---|---|
| *Document the Migration Strategy* | |

## Impact Position Statement

| | |
|---|---|
| *Document the Position Statement on Impact* | |

## CURRENT STATUS

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|---|---|
| *Provide the Current Status* | ☐ *In Development* ☐ *Under Review* ☒ *Approved* ☐ *Rejected* |

## AUDIT TRAIL

| | | | |
|---|---|---|---|
| *Creation Date* | 9/2/04 | *Date Approved / Rejected* | 9/14/04 |
| *Reason for Rejection* | | | |
| *Last Date Reviewed* | | *Last Date Updated* | |
| *Reason for Update* | | | |